

PATENT SPECIFICATION



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PROVISIONAL SPECIFICATION

An Improved Cutting Tool for use with Mill-board, Wall-board and other like Material

I, ERNEST CHALMER, of 9, The Crescent, Surbiton, Surrey, British Nationality, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to an improved cutting tool for use with mill-board, wall board insulating board made of cane fibre or wood pulp and other like material its object being to provide a simple construction which will have a comparatively small bearing surface, will provide guiding means for the tool, will be easier to handle and wherein the cutting blades will last longer and be less liable to break, and the construction allows of cutting the board to within an inch of the ends thereof.

10 According to the present invention I provide a cutting tool comprising a holder having at one side, or in the case of a double cutter hereinafter referred to, set in the middle, a vertical guide member of thin material such as a dulled safety razor blade depending below the bottom surface of the said holder and secured in place by a set screw or other means so that it can be detached when necessary.

15 The side of the holder opposite that to which the vertical guide blade is secured is set at an angle and provided with clamping means for a cutter blade which can be held against the holder at any desired angle and project towards the guide blade, for instance at a V-angle whereby it will be possible to guide the guide blade or member along say the edge of a sheet of mill-board or the like and cut the edge on a bevel. The holder itself has a rearward extension which acts as a base when the tool is not in use so as to keep the sharp cutting edges from contact with the bench, table or the like on which the tool is placed.

20 An appropriate handle is of course provided which may be integral with or screwed to the rearward extension, or otherwise fitted.

25 In a practical embodiment of the device I provide a flat central portion for the holder with an inclined portion at either side each of which has fitted to it on its underside a clamping plate, say by means

of screws, adapted to hold between it and the holder a cutting blade, such as a safety razor blade, set at such an angle to each other as to produce an appropriate V-cut. The centre of the holder is slit for an appropriate length to accommodate the guide blade which is mounted in a holder or clip which rests on the upper side of the holder and is secured there by the head of a screw passing into a screw-threaded hole in the flat part of the holder.

30 With such a device by guiding the guide member in the interstice between two adjoining surfaces, the edges of each may be bevelled at a suitable angle and by passing there-over a roller the joint between the two surfaces will hardly be visible.

The holder may be curved to follow the contour of the edge on which it is used.

35 By removing the guide member a V-groove can be made in any part of the sheet and thus a design can be easily produced. Obviously the holder can be arranged that the cutting blades can cut vertically or horizontally or again the holder can be so bent and clamps provided that one blade can be set horizontally or thereabout and the other vertically or thereabout thus enabling various cuts to be made as for example a "ship-lap."

40 The device is easily made, and easily used or handled and enables a good joint to be made when assembling boards of the nature referred to for sound-proofing in rooms, for ceilings and so on and the blades do not become so quickly blunted as in other appliances for doing the same work.

45 It is possible to provide right and left hand tools with a single cutter and a single guide member which are used alternately to produce the V-groove the advantage being that less effort is needed than with the double bladed type.

Dated this 11th day of January, 1934.

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Patent Agents for the Applicant.

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COMPLETE SPECIFICATION

An Improved Cutting Tool for use with Mill-board, Wall-board and other like Material

I, ERNEST CHALMER, of 9, The Crescent, Surbiton, Surrey, British Nationality, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an improved cutting tool for use with mill-board, insulating board made of cane fibre or wood pulp and other like material, its object being to provide a simple construction which will have a comparatively small bearing surface, will provide guiding means for the tool, will be easier to handle and wherein the cutting blades will last longer and be less liable to break; the construction allows of cutting the board to within an inch of the ends thereof.

Cutters for trimming cardboard and the like are known, comprising a base adapted to be guided along the edge of the material, said base having mounted thereon an inclined member, on which a cutting tool was clamped by means of a plate carrying the handle of the cutter.

According to the present invention a cutting tool for mill-board and similar material is provided comprising a holder having a flat horizontal surface adapted to bear on and be guided along the material to be cut, a handle attached to said flat horizontal surface, a blade carrying portion forming an extension of said flat horizontal surface and a cutting blade secured to the under side of said blade carrying portion.

The flat horizontal surface has at one side, or in the case of a double cutter hereinafter referred to, set in the middle, a vertical guide member of thin material such as a dulled safety razor blade depending below the bottom surface of the said flat horizontal surface and secured in place by a set screw or other means so that it can be detached when necessary.

The invention is shown in a practical form of construction, by way of example, in the accompanying drawing, in which:—

Fig. 1 is a side elevation.

Fig. 2 is a plan, and

Fig. 3 an end view.

In this construction of the device I provide a flat central portion 1 of the holder, with an inclined portion 2 at either side thereof, each such portion 2 being fitted on its underside with a clamping plate 3, say by means of screws 4, adapted to hold

between it and the holder a cutting blade 5, such as a safety razor blade, set at such an angle to each other as to produce an appropriate V-cut. The centre of the holder is slit at 6 for an appropriate length to accommodate the guide blade 7 which is mounted in a holder or clip 8 which rests on the upper side 9 of the flat portion 1 of the holder and is secured there by the head of a screw 10 passing into a screw-threaded hole in the flat part 1 of the holder. A handle 11 is provided.

With such a device by guiding the guide member 7 in the interstice between two adjoining surfaces of mill-board or the like, the edge of each may be bevelled at a suitable angle.

The holder may be curved to follow the contour of the edge on which it is used in which case the guide blade 7 will bend to the same contour.

By removing the guide member 7 a V-groove can be made in any part of the sheet and thus a design can be easily produced. Obviously the inclined portions 2 could be set at any desired angle to the vertical. In the case of a double cutter, one portion 2 could be arranged nearly vertically, or thereabouts, and the other formed horizontally or thereabouts, with its surface below the level of that of the bottom of the central portion 1, so that the blade 5 attached thereto would cut horizontally, or thereabouts, into the edge of a piece of material and the other blade 5 would cut nearly vertically, or thereabouts, thus enabling various cuts to be made.

The device is simple to make, and easily used or handled, enabling a good joint to be obtained when assembling boards of the nature referred to for sound-proofing in rooms, for ceilings and so on. The blades do not become so quickly blunted as in other appliances used for doing the same work.

It is possible to provide right and left hand tools each with a single cutter 5 and a single guide member 7 and which are used alternately to produce the V-groove the advantage being that less effort is needed than with the double bladed type described. So that the cutters 5 do not come in contact with any surface when not in use, a rear extension 12 can be provided to act as a base, the handle and part 12 then lying on the table or bench and the rest of the tool inclining at an upward angle, or a flat guard shown in dot and dash lines at 13 may be secured

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over the cutting blades by a screw or clamp 14.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A cutting tool for mill-board and similar material comprising a holder having a flat horizontal surface adapted to bear on and be guided along the material to be cut, a handle attached to said flat horizontal surface, a blade carrying portion forming an extension of said flat horizontal surface and a cutting blade secured to the underside of said blade carrying portion.

2. Cutting tool as claimed in claim 1, provided with guiding means depending below the flat horizontal surface thereof.

3. Cutting tool as claimed in claim 1, provided with clamping means on the underside of the blade carrying portion to hold the cutting blade.

4. Cutting tool as claimed in claim 1, provided with a rearward extension to form a supporting base when the tool is not in use for the purpose specified.

5. Cutting tool as claimed in claim 2, having a longitudinal slit formed in the flat horizontal surface, a holder located in such slit carrying the guiding means, means for securing the guide holder in position, both sides of the flat horizontal surface being formed as blade carrying portions and clamps on the underside of said blade carrying portions for cutting blades set at an incline to each other.

6. A cutting tool as claimed in claims 1 to 5, constructed, and arranged substantially as shown in the accompanying drawing.

Dated this 16th day of September, 1934.

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Patent Agents for the Applicant.

[This Drawing is a reproduction of the Original on a reduced scale.]

